

Chapter 7 System of Equations**Section 7.4: Using Substitution As a Strategy to Solve Linear System**

Even though it doesn't matter which variable you isolate, sometimes one is easier than another.

Example 2: Solve by substitution.

a) $5x + 3y = 5 \longrightarrow \textcircled{1}$
 $2x + y = 8 \longrightarrow \textcircled{2}$

b) $x + 6y = 9 \longrightarrow \textcircled{1}$
 $3x - 2y = -23 \longrightarrow \textcircled{2}$

c) $5y + 2x = -2 \longrightarrow \textcircled{1}$
 $5x - 2y = 24 \longrightarrow \textcircled{2}$

d) $8x + 4y = 1 \longrightarrow \boxed{1}$
 $7x = -2y \longrightarrow \boxed{2}$